LineUp With Math[TM] **Alignment** **Missouri Mathematics** **Grade-Level Expectations**

Strand: Number and Operations

3. Compute fluently and make reasonable estimates

E. Use proportional reasoning

Grade-Level Expectation	*LineUp With Math*[TM] **Activities**
Solve problems using equivalent ratios (MA 1 3.3)	--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Strand: Algebraic Relationships

4. Analyze change in various contexts

A. Analyze change

Grade-Level Expectation	*LineUp With Math*[TM] **Activities**
Compare situations with constant or varying rates of change. (MA 2,4 1.6,4.1)	--Use an interactive simulator to identify distance, rate, time conflicts in air traffic control problems and resolve the conflicts by varying plane speeds or changing plane routes.

Strand: Geometric and Spatial Relationships

4. Use visualization, spatial reasoning and geometric modeling to solve problems.

B. Draw and use visual models

Grade-Level Expectation	*LineUp With Math*[TM] **Activities**
Draw or use visual models to represent and solve problems (MA 2 3.1)	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Strand: Measurement

1. Understand measurable attributes of objects and the units, systems and processes of measurement.

C. Tell and use units of time

Grade-Level Expectation	*LineUp With Math*[TM] **Activities**
Solve problems involving elapsed time (hours and minutes). (MA 5 3.1)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

2. Apply appropriate techniques, tools and formulas to determine measurements.
A. Use standard or non-standard measurement

Grade-Level Expectation	*LineUp With Math*[TM] **Activities**
Estimate a measurement using either standard or non-standard unit of measurement. (MA 2 1.6,3.3)	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.